

SILICON GULCH GAZETTE

32 February 1983

Initiative, Inc., 345 Swett Road, Woodside CA 94062

(415) 851-7077

Clarkson College to Issue Computers to Student Body

Clarkson College, Potsdam, New York, will provide desktop computers to all incoming freshmen, beginning this Fall.

Clarkson College has selected Zenith Data Systems Corporation's Z100 desktop computers and the subsidiary of Zenith Radio Corporation will be supplying more than 1,000 computers each year for the next four years. The retail value is estimated to be in excess of \$3.7 million annually.

"This is something colleges and universities have been talking about for years," said David Bray, dean of Clarkson's Educational Computing Systems. "If all goes as planned, in the course of time every student at Clarkson will have their own microcomputer and be linked to a campus-wide network."

"We considered everything from Apple to Zenith in our search and in terms of price, quality, capabilities, and expandability Zenith's Z100 had it all," he said. "Especially important was the ability of the system to interface with the school's mainframe computer, an IBM 4341," said Bray.

Clarkson selected the Z100 low-profile model with a single diskette drive and monochrome graphics. A Zenith high-resolution, 12 inch green monochrome display with a 25 line by 80 character display is also being supplied.

Software being provided includes the CP/M 85 and ZDOS operating system software to run the computer, as well as Z-Basic software for graphics, Fortran and Cobol languages for writing programs, and Multiplan—an electronic worksheet for quick calculations and forecasts.

The Zenith Z100 individually controls 640 dots on 225 lines, a total of 144,000 dots. Creation of three dimensional images of objects, charts and graphs is possible and the unit can be upgraded for color graphics.

The Zenith computer has two microprocessors to run 8-bit software, is widely available on the market, and has 16-bit software. It uses an industry standard expansion structure called the S100 bus with four open slots to permit other computer equipment to operate with the Zenith computer.

Suggested retail price for each unit is less than \$3400. The cost of the computer is being subsidized by restricted grants and students will pay \$200 each semester plus an initial one-time maintenance fee of \$200. At graduation the students will own their computers.

Clarkson is an independent coeducational college with undergraduate programs in engineering, management, and science. The school was founded in 1896 and currently has about 4,000 students enrolled.

8th Computer Faire Offers Massive Conference Program; Capacity Trade Exhibit

The 8th West Coast Computer Faire appears certain to be the most interesting and valuable micro convention yet convened, and the largest such show open to end-users. *Byte* columnist Jerry Pournelle, a long-time micro observer and sci-fi author, unequivocally stated in *Byte*: "For my money, the West Coast Computer Faire has become the most important show of the year."

Dr. Portia Isaacson, President of Future Computing and one of the best-known industry analysts in the micro world, was equally definitive in a recent comment. She stated that she regards the "West Coast Computer Faire to be one of the three or four most significant computer conventions each year, because it always offers an unusually large number of introductions of particularly innovative new products."

The 8th Faire is jammed into every nook and cranny of San Francisco's 4-story Civic Auditorium, plus all of Brooks Hall, plus all major meeting halls in the two largest hotels that are adjacent to the convention center.

Taking place March 18-20, the 8th Faire sold out of its regular exhibit space fully three months before the convention.

A month later — with the Faire still two months away — it rented its last available "microbooth". These 6'x6' microbooths are a service that is unique to the Computer Faires. They offer very low-cost exhibit space for entrepreneurs and computer craftspeople who may be very innovative, but are undercapitalized. For eight Faires, they have always been one of several major focal points for Faire attendees.

Though the Conference program is not finalized at press time, over 100 tutorial and technical papers have been submitted for consideration. Over 150 people have authored these papers, prepared talks, and/or been chosen to serve on panel sessions.

Additionally, optional in-depth half-day and full-day tutorials will be offered in conjunction with the Faire (extra fee).

Registration for the entire 8th Faire Conference and Exposition is \$15, with pre-registration discounts available to groups [see details, elsewhere in this issue]. No checks or charges will be accepted at the door.

Conference Session

Learning Music at the Computer

"The future for learning music at the computer is bright indeed. At some point in the future, one could expect people to buy a microcomputer just to learn to play the piano even as many now buy a microcomputer just to play Pac Man or Visicalc. Certainly it is now possible to gain a certain level of musical training by adding a few pieces of equipment to an existing home computer," say music educators Wolfgang Kuhn and Paul Lorton.

In their 8th Faire talk, "Learning Music at the Computer," Kuhn and Lorton, of Stanford University and the University of San Francisco respectively, will discuss current trends in computer music education. They will also comment on whether quality music education is available through microcomputers, using today's hardware and software.

"The most important caution is that the fact that a microcomputer can make musical sound of a form and can produce graphic displays which resemble musical notation does not

mean that they are effective devices with which to learn music. Seeing primitive notation and listening to single voice square wave tunes will not train young musicians," warn the educators.

Computer Professions Hot for 1980's

Computer mechanics, systems analysts, and programmers will be the most sought after professionals in the 1980's, according to the U.S. Bureau of Labor Statistics. Also featured on the Bureau's list of fast-track occupations for the decade are paralegal personnel, aero-astronautic engineers, employment interviewers, tax preparers, and fast food restaurant workers.

Workers not in demand will include farmers and farmworkers, railroad car repairers, timber and logging workers, private household workers, teachers, taxi drivers, textile weavers, and shoemaking machine operators, according to the Bureau.

THE 8TH WEST COAST COMPUTER FAIRE

Friday, March 18 9am-6pm
Saturday, March 19 9am-6pm
Sunday, March 20 10am-5pm

San Francisco, March 18-20, 1983

Civic Auditorium & Brooks Hall

\$15 Registration
(No checks or charges
at the site)

Pre-registration available at participating stores & clubs
Registration includes Conference Program & Exhibition for all 3 days

Computer Faire • 345 Swett Road • Woodside, CA 94062 • (415) 851-7077

Video Initiative Introduces Tapes for Learning

Videotape well may be the wave of the future for providing introductory tutorials to users of new computer systems and software. With over three million video cassette recorders (VCR's) in the U.S., this is a hot new area for computer instruction.

It is well-recognized that a color, sound audio-visual presentation is the next best thing to an in person tutorial, to introduce people to a new subject. Also, if you think about it, one or two entire generations may be more accustomed to getting their daily information from a television set than from the printed word. Videotape tutorials are a natural for those folks.

PRODUCT-SPECIFIC INSTRUCTION

Video Initiative, a division of Initiative, Inc. (II), of Woodside, California, is producing such tapes. Within the next several months, they will complete a number of tutorial tapes, including ones covering such topics as: VisiCalc, the IBM PC, CP/M, etc.

These tapes are not vague overviews. They provide explicit instruction about specific systems - e.g. Advanced VisiCalc on the Apple III, or a new user's introduction to the IBM Personal Computer. Each tape is accompanied by a workbook, to be used with the tape, to further enhance the effectiveness and impact of the instruction. Each tape is designed for use by a single individual who can start and stop the VCR as they are watching the tape, performing the exercises on their computer, and using the accompanying workbook.

INDEPENDENT OF VENDORS

Video Initiative's tapes are straight instructional tapes; not promotional tapes from vendors of the hardware and software being

presented. Although the writing and production teams are working closely with the product vendors to assure accuracy and timeliness of the material, Video Initiative is entirely responsible for the production of their tapes.

Initiative, Inc. founder Jim Warren commented, "We are establishing ourselves as an excellent source of high-quality, independently-produced information detailing how to use computer hardware and software. We value that reputation, and fully expect to enhance it with this video venture."

HIGH-QUALITY VIDEO WORK

Each tape is - as they say in the television industry - "highly produced." That is, the production techniques that are customary and expected in first-rate television documentaries are being used in these tapes. These include use of voice-over, freeze-frame, split screen, close-ups, special effects, and much more, to maximize the efficient and effective presentation of information to the new user of a computer or specific piece of software.

This is a far cry from some of the early tapes this industry has seen, that were little more than a lecturer giving a chalk-talk before a camera.

VIDEO INITIATIVE HAS COMPUTER & VIDEO EXPERTS

Initiative, Inc., was created by Jim Warren, a long-time computer professional, well known in microcomputer circles. He has been a computer consultant in the San Francisco Bay area since the late '60's. He has chaired various organizations of computer professionals, founded the West Coast Computer Faires, and created both of the micro industry's two newspapers - the publication now known as *InfoWorld*, and the

Silicon Gulch Gazette. He was also the first Editor of *Dr. Dobb's Journal*, and founded and is currently the Editor of *DataCast*, the first "magabook" to offer a series of in-depth tutorials covering major microcomputer software systems.

Warren has well over ten years' teaching experience. He was first involved in computer education around 1960, working on a high school student enrichment program using an old, drum-memory IBM-650. He has taught in Stanford's Computer Science Department as well as at San Jose State and San Francisco State. He has taught over commercial television (KPIX-TV, San Francisco) and taught a number of computer courses over Stanford's closed-circuit Engineering School television system that serves much of Silicon Valley. He holds two graduate degrees in computing (Stanford, and University of California), and two more degrees in mathematics.

And, he has hosted the "Computer Chronicles," the first weekly television show to presume a computer-literate audience. It has now aired on about 40 PBS affiliates, throughout the U.S.

Video Initiative's Producer is David Carlson. Carlson has worked in documentary and instructional television for years, including stints with the McNeil-Lehrer Report and a number of projects for the College of San Mateo - one of the best-known junior colleges in the San Francisco Bay area.

Similarly, Director Dave Ratto has considerable experience in high-quality video production. Warren commented, "Dave Ratto is as much of a video fanatic as I am a computer fanatic. His abilities in directing and

using video technology for top-notch results are really impressive."

Warren's video group is working closely with industry writers in scripting the instructional videotapes and in creating the workbooks. Among others, they have been working with Lasselle-Ramsay, a writing and training team that recently spun off from Hewlett-Packard where they had extensive experience in both training and documentation.

Video Initiative is at 345 Swett Road, Woodside CA 94062.

Conference Session

Computers in Education

In the 8th Faire talk, "Micros to Mini," Leonard Meuer and Marilyn Clinger will describe the planning, acquisition and implementation of a computer system in the Travis Unified School District, California.

"For computer science, the computer system transformed an electronics classroom with three micros and assorted, discarded peripherals, into a functional computer science laboratory with 18 terminals directly connected to a large mini-computer," say Meuer and Clinger. They will describe how the system is used for information retrieval, word processing, warehousing, inventory control, and personnel management.

The District's large mini-computer is an HP 3000, series 44 with 2 MGB of memory configured to support up to 64 on-line peripherals. The system has two 120 MGB disk drives, a 1600 BPI magnetic tape drive and a 600 LPM dot-matrix printer. Four of the 64 ports are dedicated to telecommunications over non-conditioned dial-up phone lines. Several types of terminals and modems are used.

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Educational Computing Major Topic in Faire Conference Program

The 8th West Coast Computer Faire will feature a major Conference Session on computers and education. Speakers will discuss the impact computers have on the way teachers instruct, children learn, and the way schools are run.

Conference participants will talk about how computers have changed their educational philosophies, how to construct a school computer science laboratory, and how to use micros in teaching music. Computer use in the education of both handicapped and exceptional children will be highlighted by speakers at the 8th Faire.

Teaching young children important educational concepts will be discussed in "Young Children Use Computer Graphics," by Anne Piestrup of The Learning Company in Portola Valley, California, and "Using the Microcomputer for Teaching Pre-Math Concepts to Young Preschoolers," by a team of educators from Texas Tech University in Lubbock, Texas.

Educators will have a chance to teach each other when speakers deliver talks on evaluating educational software, setting up a school mini-computer system, and a new computer language for teaching and industrial training.

In "Evaluating Educational Software," computer lab coordinator, Glee Cathcart will detail features to examine when selecting educational software. Leonard Meuer and Marilyn E. Clinger will describe the implementation of a computer system that dramatically changed computer usage and administrative data processing in a California school district in "Micros to Mini."

H.L. Gray and Alan Elliot will introduce a Computer Assisted Learning Language (CALL) for the IBM PC.

"The second generation of CAI programs will concentrate on making the task of authoring computer assisted instruction easier through menu driven authoring systems. The CALL program is an example of such a system," say Gray and Elliot.

Unusual applications of computers in education will be discussed in "Learning Music at the Computer," by Wolfgang Kuhn and Paul Lorton, and "Computers for Exceptional Children: When is the Wedding?" by Dee Johnson, Cleborne Maddux, and Jerry Willis of Texas Tech University.

The educators from Texas will speak on the need for the computer industry and the educational community to unite in their efforts to produce good educational products. Unless a solid working relationship is formed, they say, the "most dire predictions will come to pass: we will end up with a scrap heap of electronic parts and discarded diskettes in our public schools."

Computer literacy will be the topic

of two talks at the Faire, "Computer Tutor Project: Computer Literacy in the School" by Joan Targ and "Computer Prep: Considerations for a Pre-College Computer Science Curriculum" by Monty Swiryn. The speakers, who are from the San Francisco Bay area will discuss the state of computer literacy and whether students who wish a computer related career are being adequately trained.

In "Goodbye Gutenberg? Books or Bytes?" Elizabeth Wall will describe how books are being used with computers for more effective learning. Instead of replacing books, computers can become partners with them in the educational process, she says. Wall will review current books available to help teachers and students with computer awareness, programming, and applications.

Lost Children & Lost Parents

At the Computer Faire

Although the Computer Faire is intended for mature individuals, if you take young children to the Computer Faire (which we do *not* encourage), please instruct them to go to the Computer Faire office if they get lost from you.

Older children, family, friends & business associates might be asked to meet you in the balcony (left, right or center; seating available overlooking the main arena).

The Faire will *not* use the public address system to page for lost children or adults.

1/18/83

"For my money the Computer Faire is the most important show of the year."

Jerry Pournelle, computer & sci fi author, *Byte*, July, 1982

The Computer Faire is the only micro convention that has had six major write-ups in *Byte* magazine, including two articles about the 7th Computer Faire, last March. It is the largest and best-reputed end-user micro convention in the U.S.

The 7th Computer Faire drew over 36,500, had more than 120 Conference speakers, and over 450 exhibitors.

The 8th West Coast Computer Faire is happening in early '83 at the beginning of San Francisco's Spring season. It is expecting 100 speakers (over 160 Speaker Kits have already been distributed), and had rented all of its 690+ exhibit spaces to over 350 exhibitors three months before the March Faire.

● Major Conference Program

To name a few expected sessions:

Tutorials for Novices
Educational Computing
Business Applications
Biomedical Computing
Legal Aspects & Applications
Hardware Design
Software Packages
Applications Systems
Conference Proceedings over 400 pages

● Massive Product Exposition

If it's significant, it's being exhibited.

To name a few products being exhibited:

IBM, Apple, Osborne, Radio Shack, Heath/Zenith, TI, Commodore, RCA, CompuPro, Casio, Unix, PC DOS, CP/M, Oasis, dBase II, SuperCalc, Peachtree, Insoft, Select, *Byte*, *Interface Age*, *Creative Computing*, *InfoWorld*, *Datamation*, *PC World*, *Dr. Dobbs' Journal*, *Buss*, *Compute!*, Dialog, Jade, Broderbund, Adventure International, Dysan, 3M, Maxell, On-Line, Software Toolworks, and many, many more.

● User Group & Special Interest Meetings

Including: IBM PC, Apple, Osborne, TRS-80, Heath/Zenith, etc.

● For more information call: Computer Faire, 345 Swett Road, Woodside, CA 94062 (415) 851-7077

Ask for your *FREE* subscription to the Faire's *Silicon Gulch Gazette*.

THE 8TH WEST COAST COMPUTER FAIRE

SAN FRANCISCO

CIVIC AUDITORIUM & BROOKS HALL

MARCH 18-20, 1983

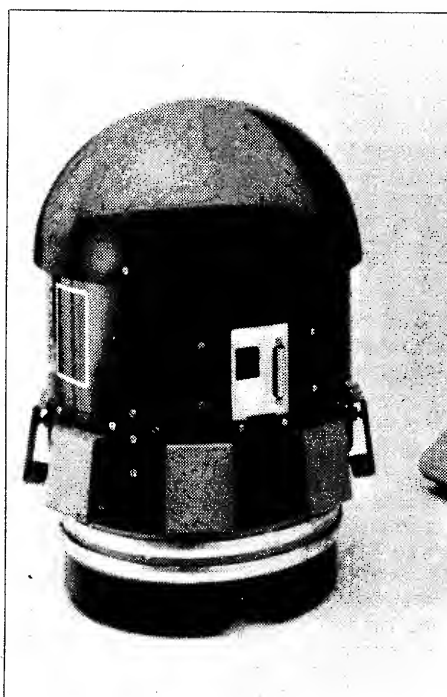
Intelligent Robot for Home Experimenters

The RB5X Intelligent Robot, a manufactured unit designed for home experimenters, is now available.

Manufactured by RB Robot Corporation of Golden, Colorado, the RB5X learns from its experience. With its own microprocessor, memory, programs, and tactile sensors, the robot detects and responds to objects in its path. Once a successful random response is achieved, the RB5X remembers its actions and repeats the correct response when confronted again with the same situation. These same principles are intended to be applied with other sensors and with more complex programs by the home experimenter using the RB5X as a starter system.

Designed for technically-oriented consumers (engineers, scientists, computer programmers, educators, hobbyists, etc.), RB5X features allow experimentation in robotics. Users may increase the "experience" and capability of the robot by installing additional mechanical functions and additional sensors, such as Polaroid's Rangefinder sonar sensor.

The robot's standard RS-232 interface makes it compatible with the



Apple, TRS-80, IBM PC, and other popular microcomputers to allow for program entry and data transfer. For example, its memory can be transferred to a personal computer to enable the user to study memory patterns generated and alter RB programs accordingly.

One circuit in the RB5X enables it to recharge its batteries automatically. The robot senses when its batteries are low, seeks out its battery charger, fully charges over a period of time, and detaches itself from the charger to resume its adventures.

The basic RB5X unit sells for \$1195. A special option package with additional memory, the Polaroid Rangefinder sonar sensor, and a pulsating light option is also available for \$295.

New features under development include a mechanical arm, a voice synthesizer, and digital radio communications between RB5Xs.

For more information, contact: RB Robot Corp., 14618 W. Sixth Ave., #201, Golden, CO 80401, (303)-279-5525.

Conference Session

The Pascal Prime Project

A panel discussion is being planned for the Faire to discuss possible additions to "standard" Pascal, and the creation of Pascal Prime, a more user-oriented language. "The Pascal Prime Project" will be chaired by Jerry Pournelle and Carl Helmers of BYTE magazine, and panelists will include writers and publishers of microcomputer Pascal compilers. After discussion by the panelists, audience participation and suggestions will be invited.

An agenda has been circulated among the panelists, which lists fourteen proposed extensions to Pascal. Criteria for the extensions are that they stay within the spirit of the language, that they be easy to use, and that they don't make programs unreadable. They should also be reasonably easy to implement.

Conference Sessions

Computers and Special Education

The growing role of computers in special education will be addressed by a large number of talks at the 8th Faire.

"The Role of Computers in Special Education" will be reviewed by Ann C. Candler of Texas Tech University. Computerized drill and practice, discovery learning, and specific software will be considered.

Another overview of computers and special education will be presented by Cleborne Maddux and Dee Johnson in "The Future of Microcomputing and the Handicap of Learning Disabilities."

Specific equipment, such as the Optacon, VersaBraille, and speech output systems, will be reviewed in "What can Computers do for the Visually Handicapped?" The speakers, Virginia Sowell and Vivian Correa of Texas Tech University, will discuss the value and implications of using computers with the visually handicapped.

"Computer Usage with the Severely/Multi-Handicapped" will be the topic discussed by Thomas and Donna Irons of Texas Tech University. The educators assert that "access to a carefully selected and highly adapted personal microcomputer is equivalent to the acquiring of vision, hearing, or physical dexterity" for the severely handicapped.

Pascal and UCSD p-System to be Detailed in 2-Day Program at 8th Computer Faire

Windsor Brown, the Vice-President of USUS (the UCSD Pascal Independent user's group), has put together a massive technical conference on the UCSD system. Speakers will offer a half-day introduction to Pascal and another half-day intro to the p-System. Others will detail the background of p-machine architecture, and discuss the advanced UCSD Pascal language. Still others will address efficiency issues in p-system programs, and discuss Modula-2. The two-day program will conclude with an Expert User Panel offering attendees the opportunity to address additional issues.

Computer Science Encyclopedia

"The Encyclopedia of Computer Science and Engineering Second Edition," a one-volume reference, has just been published by Van Nostrand Reinhold. The book, with more than 550 entries and over 700 illustrations, tables, and charts covers nine broad subject areas: hardware, computer systems, information and data, software, mathematics of computing, theory of computation, computing methodologies, computer applications, and computing milieu.

The book costs \$87.50. For more information, contact: Van Nostrand Reinhold, 135 W. 50th St., New York, NY 10020, (212)-265-8700.

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VICTOR 9000

In its review of the Victor 9000, BYTE magazine said, "... the machine is an excellent microcomputer with an outstanding array of standard features"

The leading German computer magazine called it, "The Computer of the year"

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Rambling Rumor & Fascinating Features

and, of course, all the details of the 8th Computer Faire

News of Events

New Product Information

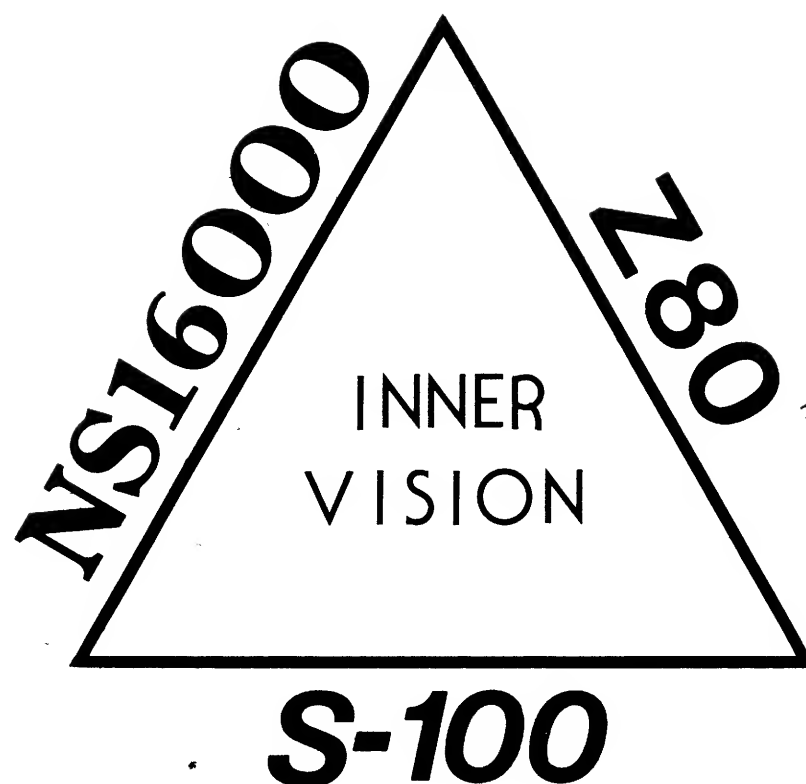
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- Virtual machine capability.
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The INNERVISION 16Z8032 Dual-Processor CPU

At the Faire: Booth 44, Civic Auditorium 2nd Floor

Or Write: 1634 Roll St., Santa Clara, CA 95050

Warren Announces First IBM PC Faire

Major Product Exhibition and Conference Slated for August 26-28 in San Francisco

The organizers of the West Coast Computer Faires have announced their "First IBM PC Faire," to take place in San Francisco's Civic Auditorium and Brooks Hall, August 26-28, 1983. The IBM PC Faire will focus on hardware, software, and applications for the IBM Personal Computer. It will include a major Technical Conference, a large product exposition, and a number of user group meetings. Organizers project an attendance of 20,000 to 30,000.

CALL FOR CONFERENCE SPEAKERS

"We have just issued a call for speakers and participation in the Technical Conference of the IBM PC Faire, and expect at least 60 to 120

speakers," said Jim Warren, Faire Chair. "We have always felt that information exchange is the essence of any major computer convention, and put considerable effort into creating a large technical program of well-qualified speakers." The PC Faire will also publish a *Conference Proceedings* expected to exceed 350 pages.

HOW IT STARTED

"Several months ago, we announced an IBM PC Hall within the 8th Computer Faire, being held this March in San Francisco," said Warren. "We expected a positive response, but frankly, we were amazed. The PC Hall sold out of space in less than 10 days! We now have about two dozen companies on a waiting list for

any possible opening. That's what gave us the idea for the PC Faire."

MAJOR EXPOSITION EXPECTED

The trade exposition is expected to be comparable in size to the massive exhibitions at the West Coast Computer Faires.

"Almost every PC-oriented company to whom we have mentioned the PC Faire has expressed an immediate, active enthusiasm for the event and has requested exhibit information. They like the focus on the IBM PC; they like the timing, and they like the location," commented Warren. He pointed out that the convention occurs at the best time of the year in one of the nation's most popular tourist cities,

allowing attendees and exhibitors to combine business with their summer vacations.

LARGE ATTENDANCE LIKELY

"We drew over 36,500 to the 7th Computer Faire, last Spring, and are expecting well over 40,000 for the 8th Faire, this March," Warren observed. "Every time I've mentioned plans for the PC Faire to computer groups, I have encountered nothing but active interest and enthusiasm. Based on this response, our drawing ability for the Spring Computer Faires, and the 105,000-circulation of the Faire's *Silicon Gulch Gazette* newspaper - heavily biased to the west coast - I feel our 20K to 30K attendance projection is very reasonable."

TRS-80 Educational Grants Program

Radio Shack is setting the subject for proposals in the fourth submission cycle of the company's Tandy TRS-80 Educational Grants Program as "Unique and Innovative Microcomputer Applications in Education." Deadline for submissions under this theme is March 31, 1983.

Through the program, TRS-80 hardware, software, courseware and related products totaling \$500,000 per year will be awarded to individuals and non-profit organizations whose proposals are selected in four quarterly cycles as providing the greatest benefit to the American educational community under selected proposal themes. Equipment is allocated based on the recommendations of an impartial Educational Grants Review Board comprised of a number of distinguished educators.

Information kits are available by written request only from: Tandy TRS-80 Educational Grants Program, Radio Shack Education Division, 400 Tandy Atrium, Fort Worth, TX 76102.

Note: CHILDREN AT THE FAIRE

The Computer Faire is a conference and trade exposition about computing and information processing. It is designed for mature individuals who have a sincere interest in learning about (or learning more about) computing, information management, computers, and "the information society".

These topics are presented at the Faire, presented by adults, and presented for adults... and mature, seriously interested young people and students. Although the Faire includes some element of entertainment and occasional electronic games, the Faire is not appropriate for children nor for immature young people. (Among other things, this is reflected in the single registration fee, for adults.)

Parents and teachers are discouraged from bringing immature individuals to the Faire. To do so is unfair to the other attendees, unfair to the speakers, unfair to the exhibitors, and unfair to the children.

Therefore:

Children found playing or otherwise causing a disturbance in the convention center may be ejected from the building - just as they would if they were being disruptive in a university classroom, business office, engineering lab, or training seminar (or, for that matter, in a theatre, play, or symphony). The park in front of the Auditorium may be appropriate for children's play; the Faire is not.

Save 26% on Faire Registration

By gathering your friends and associates together, you can all save \$4 on 8th Faire registration fees - paying \$11 each, instead of the \$15 "at the door" fee. (Or, you can "deal" registrations and earn a few extra dollars for yourself or your group.) Here's how:

Purchase Faire registrations in blocks of ten or more, no later than March 7, advancing

\$110 for a minimum order of ten (prepaid). (There is a small shipping and collection charge on COD orders.)

You can return up to half the number of registrations ordered, by March 17 (the day before the Faire), for a refund of \$11 per returned/unused registration.

To take advantage of this offer send your check or COD

order for ten or more registrations (advancing \$110 @ on prepaid orders) to:

Pre-registration Desk
Computer Faire
345 Swett Road
Woodside CA 94062

Include your street address for certified UPS delivery. We pay shipping on prepaid orders. You pay shipping and collection charges on COD's.

PC WORLD DAY AT THE FAIRE

March 19th at the West Coast Computer Faire *PC World* magazine will present an entire day of demonstrations, seminars, and panel discussions with some of the most highly respected professionals in the microcomputing field.

Find out what the PC phenomenon really means, where second generation software is going, all about PC Systems Software, and all about multiprocessing and communications. Participate in software demonstrations like Qunix, Lotus 1, 2, 3, MBA, and many more. You will talk to the people who know the products.

Listen to what these people have to say about personal computers: Portia Isaacson, President of Future Computing; Martin Alpert, President of Tecmar; David Bunnell, President and Publisher of *PC World*; Ron Posner, Chairman of National Training Systems; Andrew Fluegelman, Editor of *PC World*; Gary Kildall, President of Digital Research; Chuck Irvine, Chief Engineer of SofTech Microsystems; Chris Larsen of Microsoft; Mitchell Vapor and Vern Rayburn of Lotus Development Corporation; Alan Boyd, Product Acquisitions Manager of Microsoft; Rod Kenyon of Compac Portable Computers; Steven Cook, Senior

Technical Editor, and Karl Koessel, Programming Editor from *PC World*.

Meet all the editors from *PC World* magazine. Ask them questions, hear them speak on telecommunications, software and hardware, peripherals, and much more.

PC World Day events will be held in the ballroom of the San Franciscan Hotel, one block from Brooks Hall. *PC World* Day will be held March 19th in conjunction with the 8th West Coast Computer Faire. Registration for three days, including Conference and the show, is \$15. For more information and pre-registration prices, contact: Computer Faire, (415) 851-7077.

Conference Session

Copyright and Software

Many people put a copyright notice on their software but never actually register it with the U.S. Copyright Office, according to Attorney Daniel Remer, whose 8th Faire talk will be "Registering with the U.S. Copyright Office." Copyright registration is easy, inexpensive, and doesn't require a lawyer - so why don't more people do it?

"There are two reasons besides sheer laziness," says Remer. "The first is that some lawyers recommend that software only be registered if and when there is an infringement

Conference Session

Computerized Typesetting

"You can typeset your own newspaper, using your computer and an inexpensive matrix printer," says Bill McLaughlin. He'll describe his graphics program during his talk at the 8th Computer Faire, "Typeset Newspaper on Computer."

McLaughlin sees many uses for his production methods, including company ads, newsletters, and club brochures or publications. His presentation will include a technical "how to" explanation, aimed at helping others get started on their own production projects.

Faire Smoking

By city ordinance, smoking is permitted only in the entrance lobby of the Civic Auditorium. It is explicitly prohibited in the conference halls, perhaps due to limited ventilation.

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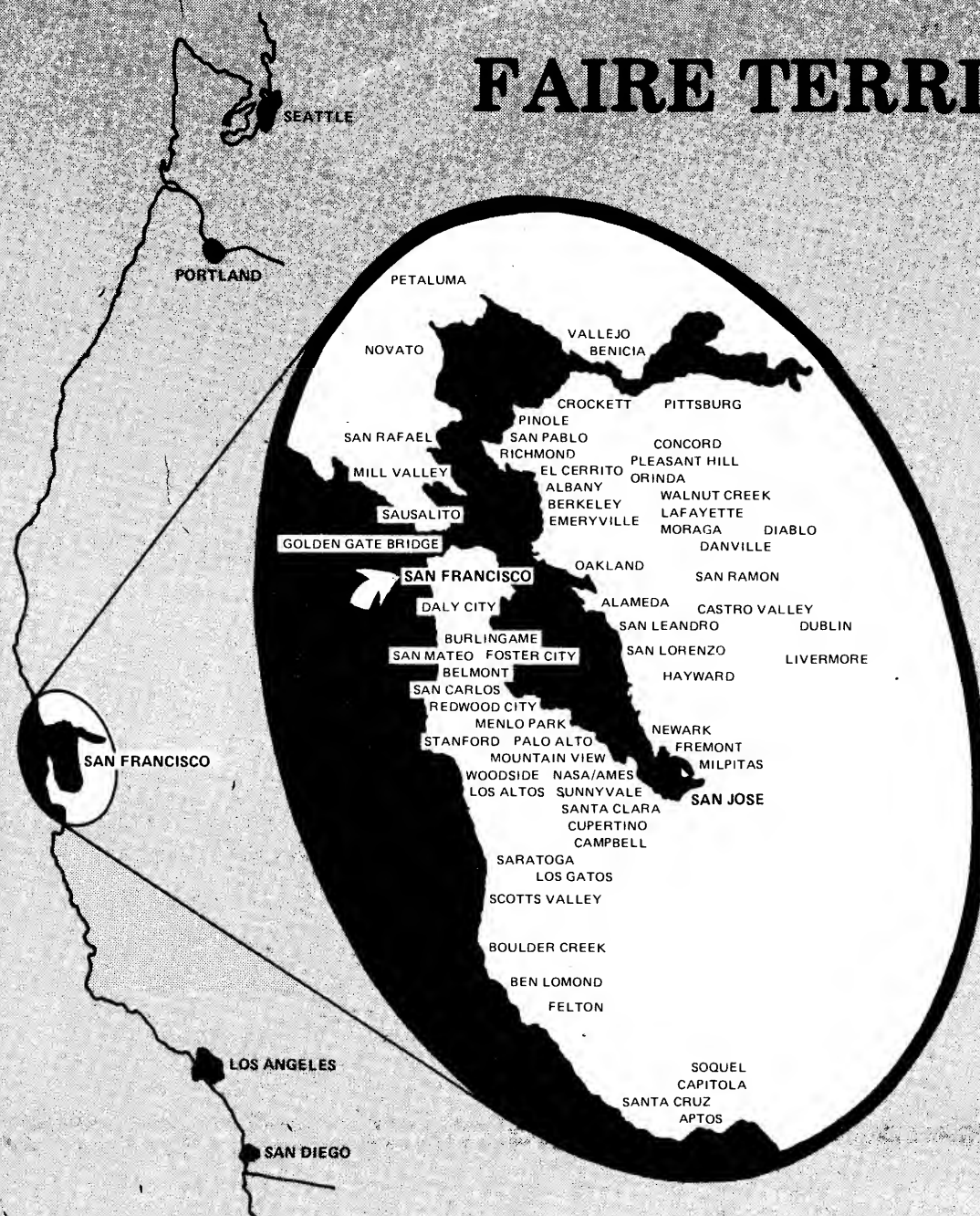
Have a Topic of Special Interest to You?

Create & Lead Your Very Own Conference Session
Choose Your Own Topic(s)

MEET !

at the IBM PC Faire

FAIRE TERRITORY



Foreign Tourists Flock to the Faire

As always, foreign visitors will make the Faire an exciting and informative event.

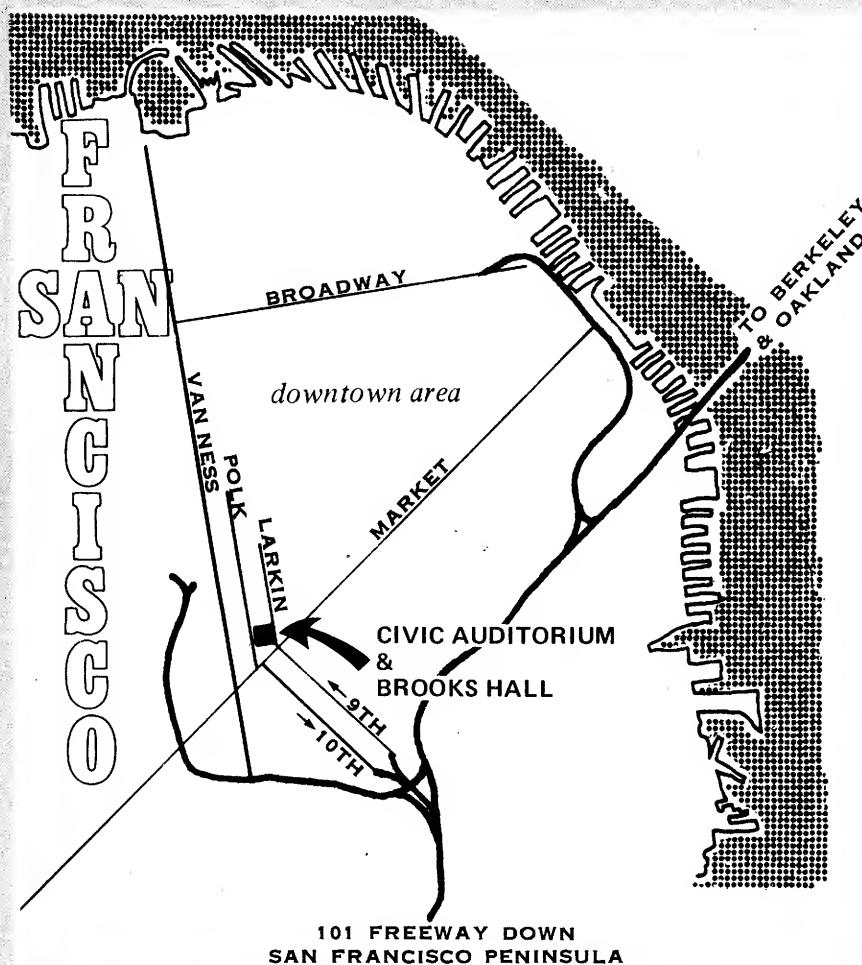
A group of Japanese people will visit the Faire on a tour organized by The Japan Microcomputer Club. For more information, contact: The Japan Microcomputer Club, Rm. 313, 3-5-8 Shibakoen Minato-Ku Tokyo 105, Japan.

There is a proposed West Coast Computer Faire tour out of Singapore. For details, contact: American Embassy Commercial Attache, 30 Hill St., Singapore 0617, Republic of Singapore.

For Rapid Transit Use BART

Need rapid transit while you're visiting in the Bay Area? Use the Bay Area Rapid Transit System (BART). Trains run seven days a week, 365 days a year, Monday through Saturday, from 6am to 12 midnite, and Sunday, from 9am to 12 midnite.

For more information and a system map, contact: BART, 800 Madison, Oakland, CA 94607.



Conference Session

Author, Author! Your Role in Computer Book Publishing

"My objective is to present a short history and a look into the future of microcomputer book publishing, as well as a strong argument - I hope - for your writing a computer book," says Raymond Collins of his 8th Faire talk "Your Role in Computer Book Publishing."

Collins, a vice president of Tab Books, Inc., will explore areas of interest to all novice computer book authors. He will discuss choosing a topic, investigating the computer book market, querying a publisher, and authors' rights. Now is the time for authors to break into this burgeoning market, says Collins.

"The market for computer books is so strong that it resembles the market for books about a fad. We have all learned in book publishing, however, that microcomputers are not part of any fad," says Collins.

Conference Session

Campy Computers

"Computer camps for children are an outgrowth of the mushrooming computer literacy movement in the United States today," says Thomas Copley, executive director of Yellow Springs Computer Camp, Yellow Springs, Ohio. In his 8th Faire talk, Copley will discuss the joys and frustrations of starting an independent, non-profit day camp that offers riding, swimming, unicycle riding, and other activities, as well as computing.

Conference Session

Life Sciences Database

Researchers in the life sciences field using microcomputers will soon have direct access to current research literature which relates to their special interests. A subscription service is being developed which will deliver diskettes containing new listings, drawn from a file of well over a million references.

Louise Schultz, systems development director of BioSciences Information Service of Philadelphia, Pennsylvania, will describe the search system during her 8th Faire talk "B-I-T-S: Life Sciences Literature Files on Floppy Disks." B-I-T-S stands for BIOSIS Information Transfer Service.

"Only if it is accessible to those who need it does this volume of literature contribute to further discoveries and developments," says Schultz.

Meeting Someone at the Faire??

Suggestion: Ask friends and associates to meet you in the balcony area of the Civic Auditorium. Specify the left, right, or center section. It has ample seating and overlooks the Civic Auditorium exhibition area.

Note: The public address system is NOT available for paging individuals, except for medical emergencies.

Avoid Long Lines, Pre-register for the Faire!

Although the Computer Faire, itself, is not staffed to handle preregistration, it has arranged for a number of sources for preregistration.

The stores prefer that you drop by to pick up your prereg - they'd like to see you and have you see what they have to offer. ("Know your dealer.") However, should you be unable to do so, several of them - marked below by an asterisk - are accepting mail orders, IF you do the following:

1. Phone the store for their reg fee. By FTC regulations, the Faire cannot tell them what to charge. Send full payment, and a stamped, self-addressed, legal-size envelope.
2. Send your mail order in time to reach the store by March 1st. (Remember, the U.S. Mail Service will be handling its delivery in both directions.)

Data Domain of Schaumburg*

1612 E. Algonquin Rd
Schaumburg IL 60195
(312)-397-8700

Opamp Technical Books

1033 N. Sycamore Ave
Los Angeles CA 90038
(213)-464-4322

Deans Music City* \$12

802-704 Miles Ave.
Indio CA 92201
(619)-347-5245

Computerland

289 E. Highland Ave
San Bernardino CA 92404
(714)-886-6838

Computer Ware

6791 Westminster Ave
Westminster CA 92683
(714)-891-2584

MicroXchange

222 E. Carrillo St #101
Santa Barbara CA 93101
(805)-963-9441

Coastal Computers

986 Monterey St
San Luis Obispo CA 93401
(805)-543-9339

Micro Pacific Computer Ctr* \$11

5148 N. Palm
Fresno CA 93704
(209)-229-0101

National Computer Ctr

3202 E. Ashlan Ave
Fresno CA 93726
(209)-227-8479

ZacKit/Monterey*

1193 10th St
Monterey CA 93940
(408)-375-3144

Affordable Computers

716 A Lighthouse Ave
Pacific Grove CA 93950
(408)-373-7177

Computerland - Belmont

1625 A El Camino Real
Belmont CA 94002
(415)-595-4232

Computerland - Burlingame

264 Lorton
Burlingame CA 94010
(415)-348-7731

Lotus Century

Westlake Shopping Ctr
64 Westlake Mall
Daly City CA 94015
(415)-992-5230

Computerland

4546 El Camino Real
Los Altos CA 94022
(415)-941-8154

Keplers Books \$13

821 El Camino Real
Menlo Park CA 94025
(415)-324-4321

Byte Shop

1415 W. El Camino Real
Mtn View CA 94040
(415)-969-5464

Digital Deli

80 W. El Camino Real
Mtn View CA 94040
(415)-961-2670

Mission Computer Ctr

2065 B El Camino Real W
Mtn View CA 94040
(415)-964-7063

Heathkit

2001 Middlefield
Redwood City CA 94063
(415)-365-8155

Computer Plus

1328 S. Mary Ave
Sunnyvale CA 94087
(408)-735-1199

Microplus Business Systems \$14

1020 East El Camino Real
Sunnyvale CA 94087
(408)-737-2525

Arrow Computer Supply

1301 Harrison St
San Francisco CA 94103
(415)-864-0917

AIDS Computer Ctr

271 Sutter St
San Francisco CA 94108
(415)-434-BYTE

Computer Connection

214 California St
San Francisco CA 94111
(415)-781-0200

Computerland - the Castro

2272 Market St
San Francisco CA 94114
(415)-864-8080

Crown Computer Works LTD* \$13

4200 Balboa St
San Francisco CA 94121
(415)-668-8980

Mission Computer Ctr

550 University Ave
Palo Alto CA 94301
(415)-326-9991

Heathkit

6000 Potrero Ave
El Cerrito CA 94530
(415)-236-8870

Byte Shop

1122 "B" St
Hayward CA 94541
(415)-886-2980

Computerland

22634 Foothill Blvd
Hayward CA 94543
(415)-538-8080

Microland Computers

6050 Mowry Ave
Newark CA 94560
(415)-790-0410

Best Computer Store

Stoneridge Shopping Ctr
5516 Springdale
Pleasanton CA 94566
(415)-463-2233

Computer Store - San Leandro \$15

701 Mac Arthur Blvd
San Leandro CA 94577
(415)-569-4174

North Bay Computers

6526 Washington
Yountville CA 94599
(707)-944-8885

Computer Store - Oakland

1320 Webster St
Oakland CA 94612
(415)-763-7900

Computer Center Inc

1514 University Ave
Berkeley CA 94703
(415)-845-6366

Technika Berkeley

2120 Dwight Way
Berkeley CA 94704
(415)-841-5323

Berkeley Computer

1569 Solano Ave
Berkeley CA 94707
(415)-526-5600

Computer Room

230 Mt Hermon Rd #210
Scotts Vly CA 95066
(408)-438-5001

Quality Data Processing* \$14

953 Foxswallow Ct
San Jose CA 95120
(408)-997-3730

Computer Emporium

5821 Cottle Rd
San Jose CA 95123
(408)-227-5414

Computa-Mania \$13

18285 Hwy 108 #5
Jamestown CA 95327
(209)-984-4221

Santa Rosa Computer Ctr

604 7th St
Santa Rosa CA 95404
(707)-528-6480

Computer Scene \$12

753 S. State St
Ukiah CA 95482
(707)-462-1578

Computer Stores Inc

6041 Greenback Ln
Citrus Heights CA 95610
(916)-969-2983

Capitol Computers

212 Harding
Roseville CA 95628
(916)-786-8715

Capitol Computers

1009 L St
Sacramento CA 95814
(916)-446-3101

System Design \$13

280 Commerce Cir
Sacramento CA 95815
(916)-929-1642

Capitol Computers

2800 Arden Way
Sacramento CA 95825
(916)-483-7298

Sym Users' Group

20 Sunland Dr
Chico CA 95926
(916)-895-8751

Computer Store - Corvallis* \$13.50

2015 NW Circle Blvd
Corvallis OR 97330
(503)-754-0811

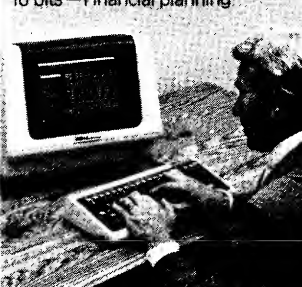
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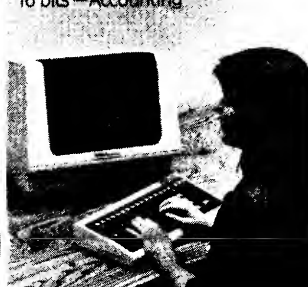
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16 bits - Financial planning



16 bits - Accounting



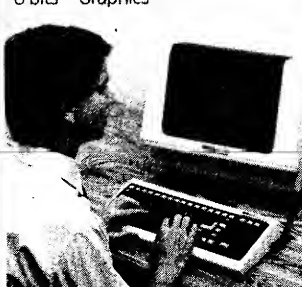
SOFTWARE

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CP/M-86™
MP/M-86™
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8th West Coast Computer Faire Conference Speakers

*This is a partial list of Faire speakers. Papers submitted by these speakers have already been accepted.
A number of other papers that have been submitted are currently completing the refereeing process.*

Use Of Computers In Churches

George M. Aldridge,
Fairfield, CA

Enhancements and Compatibility of the Apple IIe from the Apple II+

Peter Baum, Technical Support,
Apple Computer M/S 22-J,
Cupertino, CA

Preventive Maintenance

James S. Brannick,
Fremont, CA

On Writing Simulators and the Use of Macros

Greg Bryant & Joshua Gordon,
Virtual Microsystems,
Berkeley, CA

Astronomy On Your Home Computer

Eric Burgess, F.R.A.S.,
Santa Rosa, CA

The Role of Computers in Special Education

Ann C. Candler, Assoc. Prof. & Charlotte Horner, Doc. Cand.,
Texas Tech University,
Lubbock, TX

Metacompiler - The Ultimate Forth Tool

John J. Cassady,
Forth Age,
Oakland, CA

Evaluating Educational Software

Glee Cathcart, Computer Lab Coordinator,
Morrill Middle School,
San Jose, CA

Simulation: See For Yourself

Edward Cherlin, District Sales Manager,
InfoSoft Computers,
Palo Alto, CA

Using a PAL to Emulate the Internal State Counter of the MMI 'S516 LSI Multiplier/Divider

Vincent J. Coli, Applications Engineer,
Monolithic Memories,
Sunnyvale, CA

Your Role in Computer Book Publishing

Raymond A. Collins, Editorial Vice President,
TAB Books,
Blue Ridge Summit, PA

Microprocessor Based Aids for Employment that Handicapped Persons Need Now

Susan H. Phillips, Dir. of Dev. & Sharon Connor CEDP Prog. Mgr.,
Sensory Aids Foundation,
Palo Alto, CA

Role of Software Requirements

Russell A. Cook,
System Analysis Engineer,
San Jose, CA

On Starting A Computer Camp

Thomas P. Copley, Ph.D. Exec. Dir.,
Yellow Springs Computer Camp,
Yellow Springs, OH

What Can Computers Do For The Visually Handicapped?

Virginia Sowell, Assoc. Prof. & Vivian I. Corraera, Lecturer,
Texas Tech University/College of Education,
Lubbock, TX

Microcomputer Applications for Individuals with Fine Motor Impairments

Dennis Dahlquist, M.S. & Ann Preszler, M.A.,
Assistive Device Center,
Sacramento, CA

Certain Legal Aspects of the Computer Industry

Jay Dratler, Jr.,
Fenwick, Stone, Davis & West,
Palo Alto, CA

32-Bit Microcomputers & Microprocessors

Gene A. Finkler,
Cupertino, CA

Who's Playing These Games Anyway?

Sarah Fisher,
Graduate Group in Science & Math Education,
Berkeley, CA

Choosing and Designing Multiuser Systems

Lew Gaiter III, Software Engineer,
OSM Computer Corp.,
Santa Clara, CA

Business Ethics & Small Computers

Bruce Goldstein, President,
Executect Consultants,
Burlingame, CA

Computer Assisted Learning Language (CALL) An Authoring Language for Teaching and Industrial Training

Dr. H. L. Gray, Dean,
Dedman College,
Dallas, TX
Alan C. Elliott, M.A.S.,
Dallas, TX

Business Planning for Exporting Computer Software Under the U.S. Export Regulations

Fred M. Greguras & Jacqueline A. Daunt,
Fenwick, Stone, Davis & West,
Palo Alto, CA

Programming the Apple IIe - The Familiar New Computer

Bill Grimm,
Cupertino, CA

Financing Hardware and Software Development Through R & D Partnerships

Michael L. Harrison,
Harrison, Hearn & Berthold,
San Jose, CA

Improving Your Memory with 'S700-Family MOS Drivers

Chuck Hastings & Suneel Rajpal,
Monolithic Memories,
Sunnyvale, CA

Shading and 3D with Hidden Surface: Techniques That You Can Use On Any Home Computer

Mike Higgins,
The Computer Entomologist,
Duncans Mills, CA

Introduction to Input/Output Programming with your Atari Computer

Winfried A. Hofacker,
Pomona, CA

MDCSTAT: Statistics The Easy Way

Luc M. Hondeghem, M.D., Ph.D.,
Professor of Pharmacology,
San Francisco, CA

Computer Usage with the Severely/Multi Handicapped

Thomas R. Irons, Ed.D. & Donna Irons, Ed.D.,
Texas Tech University,
Lubbock, TX

A Computerized Message System for the Rehabilitation Community

David L. Jaffe,
Veterans Administration Medical Center,
Palo Alto, CA

Software Quality Assurance: Application for Personal and Microcomputer Software Development

Joe Jarzombek,
USAF Satellite Control Facility, Systems Integration,
Sunnyvale AFS, CA

Computers for Exceptional Children: When is the Wedding?

Dee LaMont Johnson, Jerry Willis & Cleborne D. Maddux,
Texas Tech University,
Lubbock, TX

Systems Impact of 32-Bit Microprocessors

Thomas L. Johnson, Systems Engineer,
Motorola, Inc.,
San Jose, CA

5-1/4" Diskette Format Standards

Eric M. Kadison, Product Planning & Development VP,
Media Systems Technology,
Irvine, CA

A Computer Toolbox for the Resident Physician

Richard Dean Kirkham,
Travis AFB, CA

Financing the High-Technology Company with an R & D Limited Partnership

Daniel L. Larson,
R & D Funding Corp.,
Menlo Park, CA

Learning in the Game Grid: Advancing Computer Literacy Instruction

Jeff Levinsky, Director of Research,
Interactive Sciences, Inc.,
Palo Alto, CA

"Solo/NET/works - A Microcomputer Network Learning Environment"

Blaise W. Liffick, Assistant Professor,
Department of Mathematics and Computer Science,
Millersville, PA

Learning Music At The Computer

Wolfgang Kuhn,
Stanford, CA
Paul Lorton, Jr.,
San Francisco, CA

The Future of Microcomputing and the Handicap of Learning Disabilities

Cleborne D. Maddux & Dee LaMont Johnson, Assoc. Profs.,
College of Education/Texas Tech University,
Lubbock, TX

National Standards for Amateur Packet Radio Networks

H.S. Magnuski, KA6M,
Menlo Park, CA

Using Window Graphics in BASIC on Olivetti's M20

Richard Mateosian,
Berkeley, CA

Instruction Modification Techniques on the 6502

W. D. Maurer, Professor,
Dept. of Electrical Engineering & Computer Science,
Washington, DC

Typeset Newspaper on Computer

Bill Mc Laughlin,
San Luis Rey, CA

Strategic Planning is Necessary for Starting and Operating Your Business

Sam Mendelow, President,
QC Resource Group,
Chatsworth, CA

Micros to Mini

Leonard T. Meuer & Marilyn E. Clinger,
Travis Unified School District,
Travis AFB, CA

RATFOR: Pascal-Like Syntax for FORTRAN

Alan R. Miller,
Professor of Metallurgy,
Socorro, NM

Buying Business Programs for Your Computer

June B. Moore, J.D.,
San Anselmo, CA

LISP - A Short Introduction

Richard A. Munoz, Project Manager,
Friends of LISP/Logo & Kids,
San Francisco, CA

8th West Coast Computer Faire Conference Speakers

An Experimental Voice Input Computer Game

Allen Munro & Harry Abramowski,
Behavioral Technology Laboratories,
Redondo Beach, CA

Investing in Public Technology Companies

J. Michael Murphy, C.F.A., President,
Pacific Technology Advisers,
San Francisco, CA

What to Look for (and Avoid) in a Word Processor

Arthur Naiman,
Oakland, CA

A Microcomputer-Videotape Recorder Interface Program for Special Education Inservice Training

Jacqueline K. Pederson & Ann C. Candler,
College of Education, Texas Tech University,
Lubbock, TX

Beyond Authoring Systems: A Program Generator for Education

Ted Perry, Computer Tech. Prgm. Spec. & Barry Cole, Comp. Spec.,
Sacramento City School District,
Sacramento, CA

Computer Vision and Image Recognition

Dr. Henry Pfister,
Los Angeles, CA

Young Children Use Computer Graphics

Ann M. Piestrup, Ph.D.,
Chairman, The Learning Company,
Portola Vly, CA

Data Bases for Business

David M. Pittle,
Smart Management Systems,
San Rafael, CA

Keeping Your Feet on the Ground: Believable Video Animation

Tom Pittman, Consultant,
San Jose, CA

The Pascal Prime Project

Jerry Pournelle,
% Byte Magazine,
Hancock, NH

Word Processing, Some Questions to Ask

Larry Press, President,
Small Systems Group,
Santa Monica, CA

How to Make Money with a Computer

Robert K. Ramers, Pres., Computer Alternatives,
Larkspur, CA

The Next Generation: Integrated Program Generators, Data Base Managers, and Business Software on Small Business Computers

Robert K. Ramers, President,
Computer Alternatives,
San Rafael, CA

Forth and numeric co-processors: an extensible way to floating point computation

Dana Redington,
Sleep Research Center, Stanford University,
Stanford, CA

Registering with the US Copyright Office

Daniel Remer, Esq.,
Remer, Remer & Dunaway,
Mountain View, CA

Scoring Music Directly from Keyboard Playing

Kentyn Reynolds,
Santa Fe, NM

Evolution of the Amateur Packet Radio Network

Paul L. Rinaldo W4RI,
Amateur Radio Research & Devel.Corp.(AMRAD),
McLean, VA

SURVIVING IN THE MARKET JUNGLE: Your Survival Tools are Words on Paper

Nicholas Rosa,
Nicholas Rosa Assoc.,
Campbell, CA
Sharon Rosa Wood,
Valley Technical Writing Service,
Los Gatos, CA

Raster Graphics

Maria Runyon,
Applications Engineer,
San Jose, CA

Brainwaves on a Budget: A Home EEG Data Analysis System

Robert E. Schaffer,
Houston, TX

B-I-T-S: Life Sciences Literature Files on Floppy Disks

Louise Schultz, Systems Development Director,
BioSciences Information Service,
Philadelphia, PA

Tort Liability of Computer Vendors

Michael D. Scott,
Manhattan Beach, CA

Corporate Attitudes Toward The Microcomputer

P. Michael Seashols, VP of Marketing,
Dynabyte Business Computers,
Milpitas, CA

Evaluating Computer Speech Devices For Your Application

Carol A. Simpson,
Psycho-Linguistic Research Associates,
Menlo Park, CA

Using the Microcomputer for Teaching Pre-Math Concepts to Young Pre-schoolers

Mary Tom Riley, Ed.D., Dale Smith & Vincent L. Taylor,
Texas Tech University/Institute for Child & Family Services,
Lubbock, TX

FORTH-83 DO-Loops

Robert L. Smith,
FORTH Standards Team,
Mtn View, CA

Report on FORTH-83

Robert L. Smith,
FORTH Standards Team,
Mountain View, CA

Developing Special-Purpose Languages

Sheldon D. Softky,
Menlo Park, CA

Algebraic Expression Evaluation in FORTH

Michael Stelowitz,
Danville, CA

Computer Prep: Considerations for a Pre-College Computer Science Curriculum

Monty Swiryn,
San Jose, CA

Computer Tutor Project: Computer Literacy in the School

Joan Targ, President,
Interactive Sciences,
Palo Alto, CA

Get More from Visicalc and Supercalc

Stanley R. Trost,
Walnut Creek, CA

Goodbye, Gutenberg? Books or Bits?

Elizabeth S. Wall,
Media Consultant,
Nokomis, FL

Quill Pens Have No Downtime - Six Ways to Reduce Employee Resistance to Computers

Dr. Sanford B. Weinberg, Chairman,
Saint Joseph University/Dept. of Admin. Sciences,
Philadelphia, PA

An Introduction to Modula-2 for Pascal Programmers

Lee Jacobson & Bebo White,
San Francisco, CA

Copyright, Software and Piracy

Kenneth S. Widelitz,
Kenneth Leventhal & Co.,
Los Angeles, CA

Using VisiCalc for Real Estate Financial Analysis

Kenneth S. Widelitz,
Kenneth Leventhal & Co.,
Los Angeles, CA

QWERTY: The worst possible keyboard (except for all the others)

Dr. Douglas H. Williams, Ph.D.,
Psycho-Linguistic Research Associates,
Menlo Park, CA

Digital Image Processing with a Personal Computer

Edwin M. Winter,
Donna M. Winter,
Technical Research Associates, Inc.,
Camarillo, CA

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Apple II Game Teaches Anatomy

Synergistic Software has produced a new type of educational game for the Apple II. "Microbe: The Anatomical Adventure" combines elements of fantasy adventure, arcade action, and accurate medical science.

The game involves a miniaturized submarine injected into the human body. The mission of the sub "Microbe" is to find and rid the body of disease and repair damage to the brain. If corrective surgery is necessary, the crew of the "Microbe" must perform it.

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The game has three different levels depending upon the educational level of the players. On the first level the game can be played as a classic adventure game, the goal being to explore the maze-like human body and overcome obstacles while solving the medical problem. On the second level players can learn facts about health care, personal safety, anatomy, and medicine while playing the game. The third level is for college level science students, premeds, and medical students. Playing "Microbe": The Anatomical Adventure will aid players in learning human anatomy and medical data. Players must know what drugs to prescribe and what immunity levels, blood pressure, heart rates, etc. are healthy or dangerous. The game can be played alone or with a group.

"Microbe: The Anatomical Adventure" costs \$44.95. For more information, contact: Synergistic Software, 830 N. Riverside Dr., #201, Renton, WA 98055, (206)-226-3216.

(8th Faire Exhibitor List Cont.)

PC Magazine
PC World
Peachtree Software International
Penguin Software
People's Computer Company
Persyst (Personal Systems Tech.)
Phase One Systems, Inc.
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Portable Computer Magazine
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West Coast Business Products, Inc.
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William Kaufmann, Inc.
Win/Mill Research Inc.
Wood & Clay Company
Wolf Software Systems
Word Associates
Wordtech Systems
Workman & Associates
Worldwide Software Publishers
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Isaacson, Renowned Industry Analyst, Endorses Warren's IBM PC Faire

Dr. Portia Isaacson, President of Future Computing, Inc., and one of the microcomputer industry's best-known market analysts, has issued the following statement:

"Jim Warren's IBM PC Faire will make a major positive contribution to the IBM Personal Computer industry and to the microcomputer user community, as have his annual West Coast Computer Faires of the past half decade. I recommend attending, exhibiting, and speaking at the IBM PC Faire in San Francisco, next

August [August 26-28, 1983]."

She went on to state: "I also regard Warren's West Coast Computer Faire to be one of the three or four most significant computer conventions each year, because it always offers an unusually large number of introductions of particularly innovative new products."

Dr. Isaacson's market analysis group, Future Computing, is the only market research firm that specializes exclusively in the personal computing marketplace.

DISTRIBUTE FREE GAZETTES TO FRIENDS & ASSOCIATES

The Computer Faire would be pleased to ship you any reasonable quantity of *Gazettes* you wish to request, for distribution to your friends, professional associates, and fellow employees. These are available without cost; the Faire will pay all charges, including UPS shipping fees.

Just write or call and tell us (1) how many you wish to receive, and

(2) where to ship 'em (it must be a street address: UPS is prohibited from delivering to a P.O. Box).

Typically, a *Gazette* will include a variety of information of general interest, as well as — of course — all the details of the forthcoming West Coast Computer Faire. Call or Write: Computer Faire, 345 Swett Road, Woodside CA 94062, (415) 851-7077.

Conference Session

Micros and the Learning Disabled

Children with learning disabilities may have a new chance in mainstream education now through the use of microcomputers. If "active," rather than "passive," uses of microcomputers with learning disabled (LD) children are developed, the great potential of microcomputers may be realized, say some special educators.

Cleborne Maddux, Ph.D., and Dee LaMont Johnson, Ph.D., both of Texas Tech University, will define "The Future of Microcomputing and the Handicap of Learning Disabilities" at the 8th Faire.

Involving LD children actively as programmers using the Logo language, as writers using word processing, and in simulation programs, can lead them through a series of situations which they would not normally experience, explain Maddux and Johnson.

"It is important for the involvement to be 'active' in order for it to make a difference in the way children think," claim the authors. "The microcomputer should be more than an expensive secretary."

Conference Session

Computer Vision and Image Recognition

Computer vision and image recognition has always been a problem in robotics and machine intelligences research. But Henry Pfister says it is now possible to assemble a computer imaging system with high computational capability for under \$4000.

In his 8th Faire talk, "Computer Vision and Image Recognition," the University of Southern California, Los Angeles, faculty member will discuss the system. It is comprised of an Apple II, a DS-65 video camera digitizer, and an Acorn 68000 processor.

Conference Session

Enjoy your Lisp

Although many computists have lauded Lisp as one of the best computer languages available in recent months, it is still unknown to many, including experienced computer programmers.

In his 8th Faire talk, "Lisp, A Short Introduction," Richard Munoz will present Lisp as a "universal programming tool with many advantages when compared to traditional languages." Munoz, project manager of Friends of Lisp/Logo & Kids will discuss the language's origins, applications, and advantages.

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Give a talk on your favorite computing topic at the First IBM PC Faire, August 26-28, 1983, in San Francisco. You can even create and chair your own conference session.

All accepted papers will appear in the *Conference Proceedings of the First IBM PC Faire*, available at the show.

The deadline for abstracts and camera-ready papers is June 14, 1983.

Call or write for a Speaker's Kit and more information today: Computer Faire, 345 Swett Road, Woodside CA 94062, (415)-851-7077.

Computer Prep:

Pre-College Curriculum

Most educators involved with computers today agree on the importance of computer literacy. But what steps are being taken to prepare those students who may take computer science courses in college, elect a computer science major, or pursue a computer related career?

In his 8th Faire talk, "Computer Prep: Considerations for a Pre-College Computer Science Curriculum," Monty Swiryn will contend that these students aren't being properly prepared for their futures. And he will discuss how the teaching of structured programming and problem solving and the adoption of Pascal in high school computer courses can help.

"One factor of which educators are becoming aware, is the importance of teaching concepts such as top-down problem solving and structured programming techniques, rather than just how to program the computer and make it do tricks," says Swiryn. "This is one of the main reasons for the widespread adoption of Pascal as the standard language for introductory courses in computer science at universities today."

Conference Session

Computer

Tutor Project

In her 8th Faire talk, "Computer Tutor Project: Computer Literacy in the School," Joan Targ will describe Interactive Sciences' Computer Tutor Project, an innovative and successful computer literacy project in Palo Alto, California. Over 2000 students, and hundreds of other members of the school district community have participated in the project which uses original curriculum based on peer tutoring. Targ, president of Interactive Sciences, will discuss how students "teach to learn," the project's implementation, financing, community outreach and ongoing work.

Getting from the Airport to San Francisco

Flying in for the Faire?

Once you step off your flight at the San Francisco Airport, watch for these shuttles to take you into the city.

The Airporter Bus will deliver you to its downtown San Francisco terminal in 30 minutes for \$4. After you arrive at the terminal, located at the corner of Ellis and Taylor, you'll need to take a cab to reach your hotel or the Civic Center.

The Airporter Bus leaves San Francisco International Airport every 15 minutes from the lower level TWA baggage claim area or carousel 5 of the United baggage claim area. For more information, call (415)-495-8404.

Limousine service to the Civic Center is offered by The Airport Connection. For \$42, five people can share a limo to the Civic Center. Call ahead for reservations, or be prepared to wait for up to an hour for a car. The Airport Connection's number is (415)-877-0901.

IBM Form Processor Schools Can Use

Applied Software Technology has released an IBM PC version of the VersaForm Business Form Processor, software originally designed for Apple II, Apple III, and Apple-compatible hard disk systems such as ProFile and Corvus Omninet.

The IBM PC version shares a standard VersaForm user interface. Current VersaForm users can implement their form templates on an IBM PC without modification.

The IBM PC version, compiled under version IV.O of UCSD Pas-

cal, implements several hardware features of the IBM system. Multi-mode reverse screen video for easier data entry; full "function key" support to speed command selections; the use of floppy disk drives of up to 400 Kbytes per diskette for increased data storage capacity; the utilization of main RAM memory as a logical disk drive (384 Kbytes of a maximum of 512 Kbytes permitted on the IBM PC) are standard PC version features.

Exchange of forms data is permitted between Apple II/III and IBM

PC Systems, regardless of source machine, through a communications sub-system (e.g. modem, local area network, etc.) or a hard disk network (e.g. Corvus, Omninet, Santa Clara Systems SCS-series, etc.). System requirements for the IBM PC version are 128 Kbytes of system memory (RAM) and two double sided floppy disk drives.

IBM PC VersaForm costs \$389. For more information, contact: Applied Software Technology, 14125 Capri Dr., Los Gatos, CA 95030, (408)-370-2662.

REQUEST for HOTEL RESERVATIONS

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MARCH 18-20, 1983

For your convenience, Computer Faire has arranged for San Francisco Convention and Visitors Bureau to handle accommodations at the following hotels. These rates are only valid on reservations received by February 17, 1983. Rates are subject to 9.75% Hotel Tax, used in part to pay for San Francisco convention facilities.

Please complete this form and mail to: West Coast Computer Faire Housing Bureau
San Francisco Convention and Visitors Bureau
Box 5612
San Francisco CA 94101

Advance reservations under this plan must be made on this form. Telephone reservations cannot be accepted.

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HOLIDAY INN/CIVIC CENTER 50 Eighth Street (1½ blocks from Civic Auditorium)	\$68	\$78	Note: Reservations held to 6pm day of arrival.
SHERATON PALACE 639 Market Street (8 blocks from Civic Auditorium)	\$100	\$110	
AMERICANIA 121 Seventh Street (2½ blocks from Civic Center)	\$53-\$55	\$57-\$59	\$71-\$80
CARRIAGE INN 140 Seventh Street (2½ blocks from Civic Center)	\$53-\$55	\$57-\$59	
HOTEL BRITTON 112 Seventh Street (2½ blocks from Civic Center)	\$32	\$38	

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No hotel reservations will be confirmed by the Computer Faire Housing Bureau until receipt of this form. sgg32

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Conference Proceedings of the West Coast Computer Faires

Listed below are the section titles for each volume.

1. THE BEST OF THE COMPUTER FAIRES, VOLUME I Conference Proceedings of the 1st West Coast Computer Faire

Banquet Presentations
Tutorials for the Computer Novice
People & Computers
Human Aspects of System Design
Personal Computers for the Physically Disabled
Legal Aspects of Personal Computing
Heretical Proposals
Computer Art Systems
Music & Computers
Electronic Mail
Computer Networking for Everyone
Personal Computers for Education
Residential Energy & Computers
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Home Computers
Tutorials on Software Systems Design
Implementation of Software Systems &
Modules
High Level Languages for Home Computers
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Homebrew Hardware
Bus & Interface Standards
Microprogrammable Microprocessors for
Hobbyists
Amateur Radio & Computers
Commercial Hardware

4. THE BEST OF THE COMPUTER FAIRES, VOLUME IV Conference Proceedings of the 4th West Coast Computer Faire

The Effect of Computers on Society
Designing Computers for Humans
Computer Communications for Human
Communication: An Overview
Computer Communications for Human
Communication: Digital Broadcasting
Computer Communications for Human
Communication: Bidirectional
Microcomputers Energy Management &
Environment
Low Cost Educational Computing
Personal Computing for Physicians & the
Physically Impaired
Inexpensive Business Computing
Microcomputer Applications
Musical Computing
Systems Software: Pascal
Systems Software: Forth
Systems Software: Pilot
Potpourri: Plain & Fancy
Micro Peripherals
Amateur Radio & Microcomputing

7. THE BEST OF THE COMPUTER FAIRES, VOLUME VII Conference Proceedings of the 7th West Coast Computer Faire

For Novices
Applications
Educational Computing
Preschool Computing
Music
Graphics
Medicine
Business Computing
CP/M Data Management
Software
Software Protection
Computer Business
APPLES & 6502's
Standards
Keyboards
Hardware
Design Automation
International Developments
The Future
Philosophical Considerations
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2. THE BEST OF THE COMPUTER FAIRES, VOLUME II Conference Proceedings of the 2nd West Coast Computer Faire

Banquet Presentations
An Introduction for the Absolute Novice
Computers for the Physically Disabled
Computers for the Visually Handicapped
Exotic Computer Games
Computers in the Arts
Legal Aspects of Home Computers
Computer Esoterica
Communications Networks & Personal
Computers
Public-Access Computer Centers
Computers in Education
Business Computing on Small Machines
For Computer Businesspeople & Craftspeople
Microcomputer Applications
Speech Input & Output
Computers in Amateur Radio
Hardware & Software Standards
Brewing Home Hardware
Designing with Microprocessors
Commercial Hardware
High Level Languages & Translators
Block Structured High Level Languages for
Microcomputers

5. THE BEST OF THE COMPUTER FAIRES, VOLUME V Conference Proceedings of the 5th West Coast Computer Faire

Tutorials for the Novice
Artificial Intelligence & Micros
Computer Games & Computer Education
Low Cost Computing for Education
Teaching About Computers & Programming
Computer Assistance for the Physically
Impaired
Medical Computing
Business & Low Cost Computing
Computer Music
Personal Communications & Microcomputers
Unusual Microcomputer Applications
Legal Aspects of Software Protection
Micro Software Engineering
Significant Software for Inexpensive Machines
Pascal & Pascal Machines
Micro Hardware & Interface
Potpourri

3. THE BEST OF THE COMPUTER FAIRES, VOLUME III Conference Proceedings of the 3rd West Coast Computer Faire

Introduction for Novices
Visions of Near Future
Computer Music Systems
Intelligent Machines to Aid the Physically
Impaired
Low-Cost Computers in Biomedical Environs
& Health Delivery Systems
Computers for Education & Teaching
Computer Games & Puzzle Solving
Potential Legislation Affecting Computer Users
& Owners
Low-Cost Aid to Government
Legal Aspects of Computers & Software
Inexpensive Computing for Business
The Business of Inexpensive Computing
Business Systems Software
Floating Point Standards & Mathematical
Micros
Microcomputing Software
Peripherals: Plain & Fancy
Communicating Computers
The Unclassifieds: A Potpourri
Post Partum Paper: Arrival After the Press
Began to Roll

6. THE BEST OF THE COMPUTER FAIRES, VOLUME VI Conference Proceedings of the 6th West Coast Computer Faire

For the Novice: Introduction to Computing
Microcomputing: Very Unusual Applications
Computer Graphics: Input
Computer Graphics: Processing
Computer Output in Two & Three Dimensions
Speech & Music Synthesis by Computers
Mass Digital Telecommunications
Computers for Document Production
Biomedical Computing
Computers for the Physician's Office
Computing in Law & Law in Computing
Computer Assisted Instruction: Plain & Fancy
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8.

The Best of the Computer Faires, Volume VIII, will be available at the 8th West Coast Computer Faire, March 18-20 in San Francisco. Copies will cost \$15 each.

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